



SUOMI NPP Sensor Data Record (SDR) Science and Validated Product Maturity Review Opening Remarks

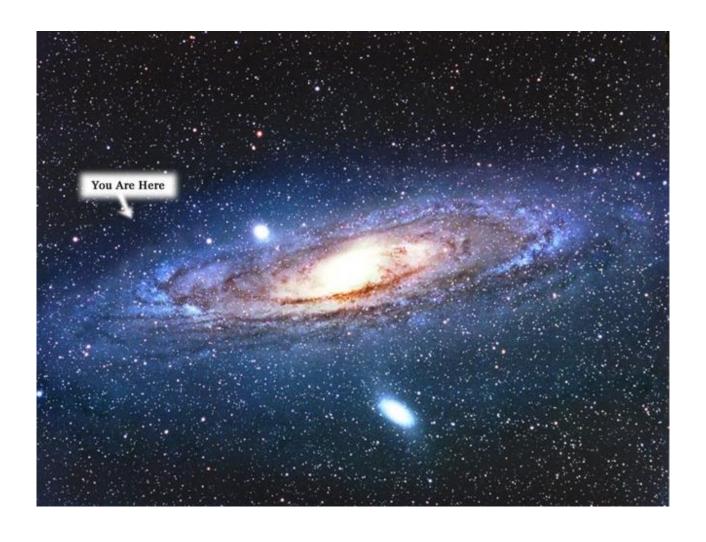
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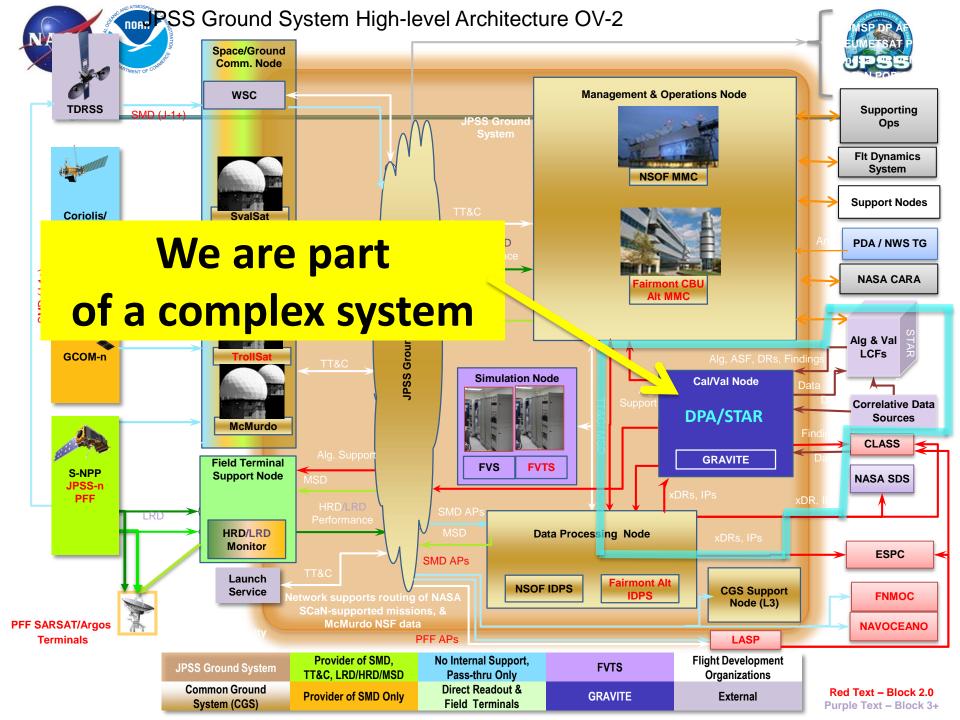
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JPSS is a big Program





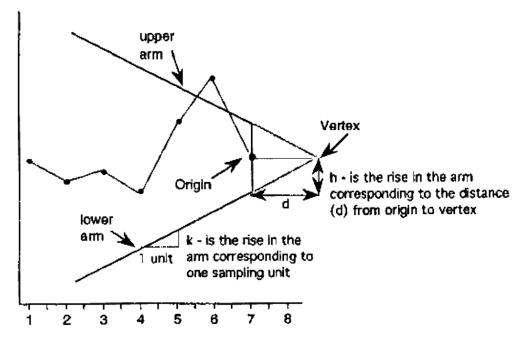




However, many things that affect our performance within this system are not under our control



- Budgets/Furloughs
- Contracts/Legal
- Human Resources
- Oversight/Reporting
- Reorganizations
- Travel
- Traffic







Still, we have great responsibilities



JPSS Program Data Products

VIIRS (28 EDRs) RDR & SDR (for each of 22 bands)

EDRs

Active Fires
Albedo (Surface)
Aerosol Optical Thickness
Aerosol Particle Size Parameter
Cloud Base Height
Cloud Cover/Layers
Cloud Effective Particle Size
Cloud Optical Thickness
Cloud Top Height

Cloud Top Temperature
Cloud Mask
Ice Surface Temperature
Imagery

Cloud Top Pressure

bands) CERES¹

Land Surface Temperature Ocean Color/Chlorophyll Quarterly Surface Type Sea Ice Characterization Sea Surface Temperature

Snow Cover
Surface Type
Suspended Matter
Vegetation Indices
Green Vegetation Fraction

Green Vegetation Fraction Index
Ocean Color/Chlorophyll

Polar Winds

Sea Surface Temperature Vegetation Health Index Suite

OMPS-Nadir

(2 EDRs)

OMPS-N RDR & SDR

OMPS-Limb²

OMPS-L RDR²

O₃ Nadir Profile

EDRs: O3 Total Column

Cris (5 EDRs)

Carbon Dioxide
Carbon Monoxide
Infrared Ozone Profile
Methane

Outgoing Longwave Radiation

Cris/ATMS (2 EDRs)

EDRs: Atm Vertical Temperature Profile

Atm Vertical Moisture Profile

ATMS (11 EDRs) RDR, OSDR, TDR

Cloud Liquid Water Imagery Land Surface Emissivity Land Surface Temperature Moisture Profile

Rainfall Rate

EDRs:

Sea Ice Concentration Snow Cover/Depth Snow Water Equivalent Temperature Profile Total Precipitable Water

AMSR2 (11 EDRs)3

RDR, SDR, TDR

EDRs:

Cloud Liquid Water Imagery Precipitation Type/Rate Precipitable Water Sea Ice Characterization

Sea Surface Temperature

Sea Surface Wind Speed Snow Cover/Depth Snow Water Equivalent Soil Moisture Surface Type

KEY

RDR – Raw Data Record

SDR – Sensor Data Record TDR – Temperature Data Record

EDR – Environmental Data Record
O – Products with Key Performance Parameters

Bold – Indicates JPSS Ground System xDR Italics – Indicates NOAA Polar Legacy (ESPC) xDR

Notes

 ${}^{1}\!RDRs \ for \ the \ JPSS-2 \ Mission \ are \ contingent \ on \ NASA \ manifest \ of \ the \ Radiation \ Budget \ Instrument \ (RBI)$

²Not applicable to JPSS-1; contingent on NASA manifest of OMPS-Limb on the JPSS-2 Mission

³Dependent on the Global Change Observation Mission (GCOM) provided by the Japan Aerospace Exploration Agency

The JPSS Program includes Ground System Support for the Metop, DMSP, GCOM, and Polar Free Flyer missions

December 12, 2013

This chart is controlled by JPSS Program Systems Engineering JPSS-P Rev B



To fulfill those responsibilities, we ask you for



Patriotism

- Science for Public Purpose
- Making Personal-Professional sacrifices to do the right thing for this important national mission's success
- Share credit for the success

Scientific Rigor

- Critical Peer Reviews
- Identify deficiencies and put together unambiguous plans to fix them

Graciousness

- We are all part of the same system
- There is no blame
- Be kind to your colleagues



The DPA-STAR Science Teams play a key role in assuring the Three Bears of JPSS Mission Success



